VOL. 5 NO. 8
AUGUST 1983

neat notes

THE NEWSLETTER OF NEW ENGLAND APPLE TREE

August 1983 N.E.A.T. Meeting

The August meeting will be held at 7:30 P.M. on the third Wednesday of the month (as usual), August 17, 1983 at the Mitre cafeteria. Mitre is on rte 62 in Bedford Ma. Take route 3 north from rte 128 to the first exit (rte 62).

AUGUST'S MEETING

Our speaker for August is joe Stivaletta, our own membership chairman. Joe will present the DTACK 68000 board for the Apple, a special board which gives you 32-bit computing at your fingertips (like having your own VAX 11-750). See the accompanying article on Page 5.

THE FUTURE SCHEDULE IS TENTATIVELY AS FOLLOWS:

August 17,1983--------68000 in an Apple,
Joe Stivaletta

September 21,1983-----CompuServ

October 19,1983-------??????????

November 16,1983------SWAP NIGHT

December 21,1983------

ANA-LIST™

THE PROCESSOR FOR LISTS AND TABLES

IF MANY OF YOUR DATA BASES ARE REALLY LISTS

TRY ANA-LIST

YOU'LL SAVE TIME AND AGGRAVATION — ANA-LIST SORTS IN SECONDS — YOU PREPARE CUSTOM REPORT FORMATS IN LESS THAN TWO MINUTES

IF MANY OF YOUR SPREADSHEETS ARE REALLY LISTS

TRY ANA-LIST

YOU'LL SAVE TIME AND AGGRAVATION — ANA-LIST DOES THE SORTING FOR YOU IN SECONDS — YOU CAN REPORT THE COLUMNS AND ROWS YOU WANT IN THE FORMAT YOU DEFINE

IF YOU CURRENTLY MAKE LISTS WITH PAPER AND PENCIL

TRY ANA-LIST

YOU'LL SAVE TIME AND EASILY REPORT JUST THE DATA APPROPRIATE FOR EACH PURPOSE

WITH ANA-LIST YOU CAN:

• SORT IN SECONDS **• PRODUCE CUSTOMIZED REPORTS**

• DO CALCULATIONS AUTOMATICALLY **• ENTER AND CHANGE DATA QUICKLY**

TYPICAL APPLICATIONS

BUSINESS	HOME	PROFESSIONAL
SALES PROSPECTS	HOUSEHOLD INVENTORY	DAILY & WEEKLY SCHEDULES
VENDOR LISTS	VIDEO CASSETTE LIBRARY	TICKLER LISTS
COMPETITIVE BIDS	INSURANCE COVERAGE	CLIENT PROSPECTS
SHIPMENT SCHEDULES	INVESTMENT PORTFOLIO	DAILY & WEEKLY BILLINGS
MATERIAL SHORTAGES	IMPORTANT DATES	CLASS LISTS
SALARY REVIEWS	TELEPHONE LIST	GRADE BOOKS
ACCOUNT ANALYSIS	HOME LIBRARY CATALOG	PERSONAL LIBRARY

ANA-LIST IS QUICK, EASY TO LEARN & SIMPLE TO USE • MANAGES LISTS FROM 1 TO 46 COLUMNS • 48K: TYPICAL LIST OF 6 COLUMNS HAS 100 ROWS • 64K: TYPICAL LIST OF 6 COLUMNS HAS 400 ROWS • SORTS ON ONE KEY COLUMN AND UP TO 9 SUBSORTS • DATA AND PROGRAM ARE MEMORY RESIDENT • ANA-LIST PACKAGE INCLUDES 150 PAGE MANUAL WITH TUTORIAL AND REFERENCE SECTIONS, TWO COPIES OF ANA-LIST PROGRAM DISK, AND SAMPLE STORAGE DISK WITH EXAMPLES • SYSTEM REQUIREMENTS: APPLE II+ OR APPLE IIe; 48K OR 64K; 1 OR 2 DISK DRIVES

PRICE: $150 plus $3.50 for shipping and handling — VISA AND MASTERCARD ACCEPTED

TO ORDER CALL OR WRITE:

SYNOPTIC SOFTWARE, INC. 57 RESERVOIR LANE, CHESTNUT HILL, MA 02167

(617) 277-0778

neat notes

THE NEWSLETTER OF NEW ENGLAND APPLE TREE

NEAT NOTES STAFF

Editor/Publisher.....
John Shaw,643-2679
Editor/Beginners Corner
Jack Sheehan,924-1197
Editor/Writer-Assembly Language
John Shaw,643-2679
Games Reviewer.....
Mark Hessman,475-2617
Advertising Manager....
HELP !!!

N.E.A.T. OFFICERS and CHAIRMEN

President..Terry Scheller,244-4833
Vice-pres...Jack Thompson,655-1896
Vice-pres....Elliot Entin,862-6418
Secretary....Alice Janian,623-6757
Treasurer.....David Lynn,655-6164
Library.....
Input.....M.Gooding,264-4237
Sales.....D.McMullin,444-4304
DOM (at D.Goldstein,273-0567
meeting).E.Mac Lauchlan,878-2229
Outside User Group Contact.....
Larry Starnes,263-1795
Membership.Joe Stivaletta,861-1899
Auditor.....Don Foster
Greeter.....Jack Thompson,253-8688

SPECIAL INTEREST GROUPS

SIGED.....Jack Sheehan,924-1197
SIGCP/M....Joe Stivaletta,861-1899
SIGASSY.....John Shaw,643-2679
SIGCOMM.....
SIGPASCAL..Jerry Connelly,497-9050
SIGNEW.....Lou Tarsa,547-3289

Copyright 1982, New England Apple Tree, All rights reserved.

All original Articles may be reprinted without permission by computer club newsletters if they are not copyrighted by the author. Reprints must clearly indicate the author's name, the name and address of NEAT, a copyright notice and the date of the issue. Two copies of the document in which the reprint appears should also be sent to:
Attn. Editor,NEAT Notes
P.O.Box 2652
Woburn,Ma 01801

AUGUST HIGHLIGHTS

NEAT Meeting Notes
by Alice Janian.....Page 4
Calendar
by Raines Cohen.....Page 4
AUGUST SPEAKER: Joe Stivaletta
.....Page 5
Apple Communications
by Dave Crounse.....Page 6
A New Software Store
.....Page 7
August D.O.M.
.....Page 7
Just the Basics
Jack Sheehan.....Page 8
Focusing on Adventures
by Rich Williams.....Page 11
IAC Computer Insurance
.....Page 15
II/IIE Differences
David Miller.....Page 17
Membership Application and
DOM Order Blank.....Page 19

NEAT Meeting July 20, 1983

By Alice Janian

Present: Terry Scheller, Elliot Entin, Joe Stivaletta, John Shaw, Dave Lynn, Alice Janian.

Meeting was opened up at 7:30 P.M. by Terry Scheller-talk about the suggestions that were handed in at the last meeting. Number one complaint was meetings were not starting on time.
We had to look for a new Vice President as Jack Thompson had to resign because of work; sthe new V.P. is Gary Ziess

Meetings will be conducted in three parts:

1. Question & Answers
2. Presentation (Speaker)
3. Special Interest Groups (SIG):

Jack Sheehan will head the Beginners Group-any new member who just got their Apple and have questions should see him.

Mike Gooding (Software Librarian) is going to catalog what we have in our Library and have a list of Programs available for members

Joe Stivaletta - Demonstrated the Arcade Board which is a peripheral for the Apple II Computer that generates color graphes. Thank you Joe for a nice and informative presentation.

In August Joe's Topic will be "68000 in an Apple".

Meeting adjourned at 8:50 P.M. and went into SIG.

CALENDAR
Compiled by Raines Cohen

August 17 7:30PM
New England Apple Tree
Mitre Cafeteria
call 497-9050

August 20 9:30AM
Apple Guild
Massasoit Community College
call 767-1303

August 25
3 Pascal User's Group
MIT 1-146
call 227-9178

August 27 2:30PM
Newton Apple Kids
Location: ?????
call 965-0033

August 31 7:30PM
Boston Computer Society
New England Life Hall
call 227-9178

September 7 7:00PM
New England Computer Society
Mitre Cafeteria
call 646-3080

September 10 10:00AM
North Shore Apple Group
Computer City, Danvers
call 546-3104

September 17 9:30AM
Apple Guild
Massasoit Community College
call 767-1303

September 21 7:30PM
New England Apple Tree
Mitre Cafeteria
call 497-9050

September 24 2:30PM
Newton Apple Kids
Location: ????
call 965-0033

Sep. 29-Oct 1 All day
CP/M 83 EAST
Hynes Autitorium
Boston

JULY MEETING: 68000 BOARD

SPEAKER: JOE STIVELETTA

Have you found yourself admiring all those new 16-bit microcomputers on the block, wishing **you** could add 16 bit computing to your lowly Apple][? Well we've good some good news: **you** (yes, you) can now add 32-bit computing power to your Apple!! Thanks to several companies, you can install a genuine Motorola 68000 microprocessor with up to 1 megabyte of memory in your Apple that will run circles around the best of the 16-bit chips. Whereas the Apple's 6502 processor handles numbers 8 bits (1 byte) at a time, The Motorola 68000 handles numbers 32 bits at a time. Moreover, the 68000's internal clock run 8-12.5 times faster than the Apple's. An even bigger plus: the 68000 has built in floating point multiplication, making it a natural for complex scientific and engineering calculations.

First and foremost among these companies supplying 68000 boards for the Apple is Digital Acoustics, the makers of the **DTACK** 68000 system. The DTACK board includes the 68000 chip plus 4 Kbytes of memory (expandable up to 1 megabyte) all for the relatively low price of $595. Of course, 4 K is not enough memory to sneeze in, but you can easily add up to 128 K for a few hundred dollars more.

What comes with the DTACK board? Digital Acoustics has been working on HALGOL, a BASIC-like language which should be available by now. Rumor has it that another company named Phase Zero is working on a 68000 BASIC which will be somewhat compatible with Applesoft. In addition, Digital Acoustics has been working on a special Apple][interface board that will transfer blocks of memory between the 68000 and the Apple at very high speeds. The company claims this board can transfer an 8 K HIRES graphics page between the 68000 and the Apple in less than 12 milliseconds, which is less than the time it takes to do one screen update at 60 Hz!

As of yet, there is not much software written for this machine (read: you have to write your own). However, the good folks at Digital Acoustics **did** develop their board so that it can run Applesoft, including compiled Applesoft from the TASC and EXPEDITER compilers. Moreover, the programs this board can run it runs **FAST!** The folks at PEELINGS magazine liked this board and ran several benchmarks to compare it with Applesoft. Their results for the Sieve of Eratosthenes prime number program are:

Applesoft Interpreter:	52 s
Applesoft Compiled:	41 s
DTACK w/ Applesoft:	20 s
DTACK w/ HALGOL:	2 s

In addition, the PEELINGS reviewer found the DTACK running with Applesoft will do a SIN function roughly 15 times faster than the standard Apple. In short, this board is fast! With the 68000 already endorsed by Apple in the Lisa, and (rumor has it) in the forthcoming MaCintosh, you can bet you will be seeing more of the 68000 chip in the future. The best way to learn more about the DTACK board is to see it yourself at our August meeting. We hope to see you there!

APPLE COMMUNICATION

By Dave Crounse
(From 'BYTELINES'-V.2 #3)
(From IAC COMPILER #3)

This article will discuss how the communication process works. Ian H. Itten covered the subject quite well in a recent article titled "Welcome to the Standards Jungle" (Byte, February 1983). If you didn't read his article, I'll try to synopsize it.

There are many standards in use for communication between computers and terminals: RS-366, RS-423-A, RS-499, V.10, V.24, Current-Loop to name a few. Those with an RS prefix come from the Electronic Industries Association (EIA), the V or X prefixes come from Comite Consultatif International Telephoneique et Telegrphique (CCITT). The RS standards are US recognized while the CCITT "standards" are world wide recommendations.

The RS-232-C standard is the most used currently for home computer applications (and probably for other applications). Its official title is "Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Interface". The standard consists of four parts: electrical signal characteristics, interface mechanical characteristics, functional description of signals and a list of standard subsets of signals for specific interface types.

In our applications, the computers involved in a connection are called Data Terminal Equipment (DTE) and modems are called Data Circuit-Terminating Equipment (DCE). The RS-232 standard was not designed for direct connection of two computers or a computer and a terminal and if used in those applications, most of the electrical connections are unnecessary. The standard was designed for transmission distances of less than 50 feet and speeds of less than 19,200 bits per second (bps). 9600 bps is the maximum practical rate for most applications, and switched telephone networks are even lower (110 to 300 bps). The voltage (transmitter) of the standard is >5 volts for a space (0) and <-5 volts for a mark (1). This is not compatable with standard computer circuit voltages, 0 to 5 volts.

The RS-232 uses 21 different signals lines. In the minimum configuration such as a video display terminal, only three lines are required (although a line called Protective Ground is recommended to connect the chassis of the two items for a fourth line). The required lines are:

- *Signal Ground
- *Transmitted Data
- *Received Data

For a serial printer the Received Data Line is not needed but:

- *Data Set Ready (DSR)

is added. This allows the printer to tell the computer that it cannot accept any more data. The DSR line actually has other purposes. In modem applications, it can tell that the modem is on and ready to accept data for transmission.

Another data control technique is to transmit ACSII (American National Standard Code for Information Interchange) control code DC 1 (Device Control 1 or XON) and DC 4 (Device Control 4

or XOFF). These correspond to Control Q and Control S. In this case the Received Data line is connected instead of DSR and the printer transmits the appropriate code when full or ready to accept data.

As you can see, the first application assures direct connection between the computer and the printer while the second can be applied over telephone lines. You could drive a printer at a remote location over the phone assuming that the computer operating system can shut off the data flow fast enough to prevent overflow at the printer.

In Full-Duplex Private-Line Modem applications, the lines used are:

*Protective Ground
*Signal Ground
*Transmitted Data
*Received Data
*Received Line Signal Detector
*Data Set Ready (possibly)

The Received Line Signal Detector, often called Carrier Detect, says in effect, "I hear something like a modem trying to talk to me." This can signal the computer that someone is trying to make contact.

In Half-Duplex Private-Line Modem applications, two lines are added to the Full-Duplex lines:

*Request to Send
*Clear to Send

These lines control the direction of the half-duplex operation. The request indicates that the computer is ready to send, the clear indicates that the modem is ready to receive characters for transmission. The request causes the modem to turn on its transmitter, when the computer is finished with data transmission it turns off the request line causing the modem to turn off the transmitter. As you can see, this approach requires that the two devices attached to the modems (it takes two to tango and to transmit/receive) cooperate in choosing the direction of transmission.

A NEW SOFTWARE STORE: SOFTWARE CENTRE

Software Centres International, the nation's largest software retail chain, has opened a new store in the Vinebrook Plaza in Burlington (across the street from the Mall). The Software Centre carries all the latest Apple, IBM, Atari, and Commodore software for business, education, home management, and entertainment, plus computer supplies and some 1,000 computer related books and magazines.

"At Software Centre," says owner Ruth Treitman, "you can see programs demo'd before you buy. And afterward, our staff is available to answer questions and solve problems in using programs. If we don't already know the answers, we'll find them for you."

DISK OF THE MONTH

By Dr. J.

This month's D.O.M. is CAAMP: Computer Assisted Analysis for Managers, written by Robert Conte from The Apple Cart. This disk contains a regression program (bi- and multi-variate), a linear program program, and a matrix decision aid program. The linear program and the matrix decision aid work well, but I have not yet been able to get the multi-variate regression program to complete the analysis.

JUST THE BASICS

By Jack Sheehan

One thing that I suspected when I first decided to write this column is that a beginner is many different things to different people. After the July meeting I met a few of our BEGINNERS. They ranged from a programmer who first started programming on the UNIVAC, the first commercially available first-generation computer to a young man who recently won an APPLE //e in a drawing and has no computer background.

The intent of this column is two-fold. The first is to try to make computer systems less esoteric. My experience has been that much information is difficult to find. I hope to shed some light in that area. The second goal is to teach novices how to use their APPLE. Therefore, I will structure this and future columns differently than the first column The first part of the column will deal with transmitting useful information and the second part will present a lesson.

If your purchased your system in the last year, you spent about $2000. In addition, any enhancements you wanted to make cost you additional money. Let's see if we can start saving you some money. First, there is an excellent magazine that is available free of charge to all APPLE owners.The name of this magazine is SOFTALK. The magazine contains news, tutorials, reviews, programs, and feature articles on applications and on people who shape the inductry. To obtain a free subscription send your name, address, and APPLE serial number to:

Softalk
P.O. Box 60
North Hollywood,CA 91603

After six or more issues you will be asked to pay to continue your subscription, but you are under no obligation to renew. The magazine is also available at most computer stores for $3.00.

A way to obtain some inexpensive software is through our club A new policy announced at last month's meeting allows you to obtain back copies of the Disk of Month by presenting an initialized diskette plus one dollar to our librarian for each disk you want copied. There have been some good and outstanding Disks of the Month. To assist you in getting started I will present a short list of some of my favorites.

1.FEB 1982-AN APPLE TUTORIAL DISK
This is a menu driven disk that contains guidelines, helpful hints, a BASIC Tutorial, and a quick reference guide to BASIC. I consider this to be the best disk that has been issued by our club in the last three years.

2.AUG 1982-This is a low-res graphics disk. Your system will have to have Integer Basic available. One outstanding game,JOLLY ROGER,makes it a worthwhile addition to your collection. One or two of the programs will not run.

3.NOV 1982-This is a must disk for anyone interested in machine language.It contains a video listing of many of the pointers along with remarks. In addition,it contains many PEEKS, POKES, and CALLS, and

tells you what they re present. It refers pro grammers to specific pages in the reference manual for additional information. One of the utilities on the disk is a lower case killer. This allows you to load a program written in both upper and lower case and con vert it to one in just upper case. I have not used all the utilities but have been impress- ed by the ones that I have.

4. DEC 1982-This is a menu driven disk that contains an assortment of various programs. Topics cov- ered are games,utili- ties ,graphics, educa- tion,business, and mu- sic. I recommend it because it is easy to run, is entertaining, and contains a very in teresting SAT program for high school stu- dents.

5. MAR 1983-This is an electronic spreadsheet utility disk for VISICALC. If you do not have such a program, there are two copies of BASICALC, a program written by Wm. V.R. Smith of SOFTALK MAGAZINE. One is in Applesoft and the oth- er is a compiled ver- sion. It contains some useful utilities and gives you the idea of what the spreadsheet is all about.

6. JUNE1983-This is a machine lan- guage disk that was re viewed and recommended in June NEAT by DR. J

The information part was a little longer than I anticipated. However, this month's lesson is short. The first disk I recommen ded in the column contains some very useful information and shoul d be run as soon as possible. To assist you in this pursuit,I will be discussing how disks are init- ialized and what takes place dur- ing their initialization.

The easiest way I know to in- italize a disk is to start with the system master and a blank disk. Place the system master in the disk drive and turn on the ma chine. The red light on the drive will go on and your system will "boot". More about booting later. Also, a message about DOS 3.3 and the date will be displayed. The computer will tell you it is loa ding integer basic. Remove the master from the disk drive and re place it with the blank disk. Type INIT HELLO. The red light on the drive will go on and the drive will run for approximately one minute. During this time you will hear a clacking noise from the disk drive. When the process is finished, the red light will go off and the cursor will start blinking. Make out a label for the disk such as APPLE TUTORIAL DISK. Remove the disk and attach the label. Remember, never write on the label once it is attached. to the disk. This will damage the disk.

To insure that everything was done properly, place the initial- ed disk back in the disk drive. Turn the machine off and then on. Your disk should boot and a mess- age from your HELLO program will be displayed. When I did this with the master that comes with the newest APPLE, no message was was displayed. However, the disk was initialized. Type the word CATALOG and press return. This is a disk operating system comm-

and a CATALOG will be displayed that only contains the program HELLO. This indicates that the disk operating system (DOS) is functioning. If you want to init ialize more than one disk, repeat the above process for each one.

During initialization the fol lowing occurs: The blank disk is divided into tracks and sectors. DOS (the operating system that co ntrols the way your computer will function) is loaded on tracks 0,1 and 2. A directory and a volume table of contents (VTOC) is placed on the disk. The computer al so saves a greeting program and exits from the process.

It's time to bring this column to a close. My hope is that you obtain a copy of AN APPLE TUTORIAL at the next meeting. If you do, you should run the first three options on the menu and exit with option 7. See you next month!

SOFTWARE
FREE DISKETTE
SOFTWAIRE CENTRE INTL.

Bring this ad to **Softwaire Centre,** not only will we give you a free diskette but you will discover one of the largest selections of Apple and **CP/M** software ever assembled. Plus Softwaire Centre has an unlimited array of computer books, magazines, games, supplies and accessories.

Vinebrook Plaza
Next to Burlington Mall

273-2919

The Original Softwaire Store™

Softwaire Centre INTERNATIONAL™

M-F 10-7 Sat 11-6

FOCUSING ON ADVENTURES
By Rich Williams

During the last six hours of May I was involved in an intellectual adventure describing how and why I liked computerized adventure games. All for the reward of another adventure game.

Even though I was given about five minutes worth of directions on the phone four days prior, my trying to find Beech Street in Boston was like trying to decode the messages in Spy's Demise.

I'm 12 minutes late as I wait in the lowtech lobby waiting for the elevator to the eighth floor office of First Market Research.

"Hello, are you here for the focus group on computers?" the woman coming off the elevator asked.

"That's right."

"Great," said the preppie standing next to her. "You're the seventh person we need to make the group work." Apparently, seven was the minimum number needed to make the market research valid.

What that means has to do with what a focus group is. A software company had hired this research company to find out what computer users look for when they're in the market for games.

NAK's President Raines Cohen had given these folks my name and phone number. They called me and asked 20 questions about how I relate to my computer, i.e. how long I've had it, what I use it for, if I play games on it, how much I spend on it per month.

I passed the first part of the survey, and he asked me questions about a list of 20 games -- had I heard of it, seen it, played it, or do I own it.

The answers I gave apparently made it clear I'm a computer hack who sometimes plays games and has money to burn on them.

So I was invited to the focus group. If I attended, I'd be given a computer game that retails for about $40, and there would be food there too.

As I walked into the conference room my reporter's eyes noticed that the far wall had a two-way mirror running the length of it, and a microphone was hanging above, almost fading into the background of the painted pipes.

An Apple 2+ and two tables of sandwich meat, salads, soft drinks, and fresh fruit were on the perimeter of the room. There were no table cloths or real china, but a long set of gold drapes over a cinder block "window" made the room a bit less cold.

I grabbed some gruel and entered the discussion of what my home system included.

The group leader, with his back toward the peepers in the adjacent room, directed the discussion to include what we look for when we buy software, what is helpful in making a decision to buy software, what magazines we read, etc.

Then the seven of us, all white males, got into the heavy talk about games. Some play games to

relax, some to take a break from more strenuous work at the computer, some to cure insomnia, and some to be challenged in an attempt to figure out the logic of an adventure or strategy game.

The purchase decision is very complex. Everyone goes through a different process before buying a game.

Among the criterion mentioned were seeing a demo, reading a good review, playing the game at a friend's house, a good warranty or return policy, a publisher or author with a good reputation, a low price, good documentation both printed and on the screen, choice of joysticks and levels, and likelihood of many family members to enjoy the game.

And let's not forget good graphics and sound, and sound that can be shut off for those midnight games.

Games were broken down into several categories, but there was no complete agreement on where lines were drawn.

Educational, arcade, and word games were simple to agree on, and then the finer groupings of sports games, imitation board games, and logic games (whatever they are).

After a short break halfway through the two-hour meeting, we got down to the leader focused the discussion on adventure or word games. It soon became clear that the sponsor of the focus group was Infocom, the publisher of the Zork trilogy, Deadline, Starcross, and Suspended.

Many of the men around the room, age 25 to about 40, told how they dislike the limitations of many adventure games that allow only a noun and verb to entered as commands.

Most of us enjoy good graphics, but most also agreed that graphics often slow down the adventure games. And we'd sacrifice graphics for a faster moving, more challenging adventure.

When it came down to advertising, some liked the latest Infocom ad showing the inside of a brain glowing, which, as the ad says, is the source of the most interesting graphics ever generated. Some people were turned on by the ad, others were turned off.

One hot topic was "help" commands in games. Some like no help available at all for a greater challenge. Others say it should be on the disk and in the documentation. Another possibility brought up would be an additional help disk of different levels of help -- or booklets that you mail away for at extra cost.

At the end of the meeting the two guys who were looking in and listening came in to thank us for the insightful evening, and answered some questions that came up.

For instance, one of the next Infocom games will allow for several ways of getting to a certain point, and the way you choose will give you a reputation to deal with during the rest of the game . . .

Imagine heading into a town on a hot, dry road. A side road leads to the river where a canoe is

COMPUTERS etc.

216 NEWBURY STREET (RT. 1 SOUTH), PEABODY, MA 01960

(617) 535-5252

"Your Computer Support Headquarters"

Franklin *1776* Special

Includes:

Franklin Ace 1000 with 64K (runs all Apple II software)
80 column card
Disk drive with controller
12" green screen BMC video display
Built in fan
Built in numeric keypad
ACE WRITER word processing program
ACE CALC electronic spreadsheet program
100 useful and entertaining software programs
10 blank disks
1 disk storage container and index file
Choice of 2 game programs OR reconditioned computer table
3 hours of training with our Educational Consultant
(two 1.5 hour sessions)

ALL FOR ONLY $1776.00

Computer Desk Special --- $79.95

We also carry APPLE, COLUMBIA (IBM compatible), & SEIKO computers as well as APPLE, EPSON, & GEMINI printers.

Whether you buy a disk or a system, COMPUTERS ETC. intends to provide you with the support you need.

FRANKLIN
COMPUTER CORPORATION

tied up. Further down the main road a horse is tied up in a stable. Whether you keep walking, steal the canoe or horse, or ask to use the canoe or horse determines the future options offered to you later in the game.

Most of the guys enjoyed meeting the authors of the Infocom games and wanted to know when more were coming out. Infocom is a small company and is committed to producing challenging adventures with intelligent parsors. These parsors allow for up to two lines of input when the user is prompted for a command.

The authors are always trying to improve the parsor. They have many new ideas. But they want to keep a small staff that understands and is dedicated to their principles. So new games will be coming out in trickles, not waves.
For myself, I'm just waiting for a long, lazy afternoon so I can try my mind at solving Deadline, the game they sent me for sharing my ideas about adventure.

SUMMER SALE

ALL SOFTWARE IN STOCK 30 - 60% OFF

SALE DATES

MONDAY	AUGUST 22	4 TO 7 PM
TUESDAY	AUGUST 23	10 TO 2 PM
WEDNESDAY	AUGUST 24	4 TO 7 PM

INTERFACE CARDS 30 - 60% OFF

ALL COMPUTER SYSTEMS EXTRA SAVINGS

BARGAINS 50 - 80% OFF

APPLEFEST PRICING ON EVERYTHING

SUMMER SPECIALS (UNTIL SEPTEMBER 5)

APPLE IIe STARTER SYSTEM	1695
APPLICARD CP/M CARD WITH 64K MEMORY, CP/M 6MHZ PCPI	259
BASIS 108 COMPUTER, 128K, 40/80 COL, CP/M , DETACHED KEYBOARD	1995
FRANKLIN ACE 1000 PRO, DISK DRIVE, 40/80 COL, ACEWRITER/CALC	1295
PKASO PRINTER INTERFACE (WITH PRINTER PURCHASE)	125
PROWRITER 8510P PRINTER	369
RANA ELITE #1 DISK DRIVE, 60K (APPLE IIe COMPATABLE)	259
SMARTERM II 80 COLUMN CARD OR ZCARD II CP/M CARD ALS	125

MICRO-DENT
COMPUTER SYSTEMS

DIVISION OF
MICROTRONICS, INC.

617-965-7576

115 BEETHOVEN AVE., NEWTON, MA 02168

BIG SAVINGS FOR YOUR SMALL COMPUTER.

DIRECTIONS TO MICRO-DENT: PLEASE ALWAYS CALL AHEAD
From Rt128 take 9E, Go 100Ft. take CHESTNUT St. exit off RT9, Go to 2nd Stop Sign, LEFT onto Chestnut St., 6/10 Mi to first light, RIGHT onto WOODWARD, take 4th street on LEFT (BEETHOVEN), 115 BEETHOVEN is FIRST building on left after passing playground

NEAT NOTES -New England Apple Tree- Box 2652, Woburn, Ma 01801

Vol 5 No. 8 AUGUST 1983

Complete Coverage Just $50 Annually

Personal Computer Insurance offers you virtually complete* coverage at full replacement cost and *no deductible* through one of the nation's top insurors, Aetna Insurance Company. For just $50 annually, you can protect your hardware, software and media up to $7500 against theft, breakage, fire and vandalism, as well as damage caused by earthquakes, floods, power surge, sewage back-up and a long list of other perils you probably can't cover under your homeowner or business-owner policy at twice the cost! You can't afford *not* to purchase this comprehensive protection against loss!

Business Interrruption Insurance Available Too

If you use your personal computer in business, you can purchase business interruption insurance that will provide payment of alternate equipment or services while yours is being replaced or repaired – at just $10 more per year.

*All risk insurance with minimal exclusions such as wear and tear, damage to data, off-premises electrical surge and mechanical breakdown.

Insure Up to $15,000

Your software and media costs add plenty to the value of your total system. Make sure your insurance covers it all. Although the basic $50 Personal Computer Insurance policy carries $7500 limits, you can purchase up to $15,000 insurance for just a few dollars more. Buy $10,000 coverage for just $65: buy $15,000 coverage for $95. You can't beat these values anywhere!

The only insurance program designed just for personal computers – by personal computer insurance experts! We designed the insurance program for one of the nation's leading personal computer manufacturers.

Another special service from the:

INTERNATIONAL APPLE CORE ™

The IAC is providing this information to you as a service to its member groups and will receive a fee for handling administrative matters for the insurance broker. The contract of insurance is between the insurance company and the policyholder. The IAC assumes no responsibility or liability with regard to the policies issued nor does it endorse or recommend the policy. All questions or inquiries with regard to the coverage provided or premiums charged should be directed to Personal Computer Insurance at (408) 723 - 8107. Any questions with regard to the legal liability of the insurer should be directed to your own legal advisor.

To obtain all this valuable coverage, just complete the attached application and mail it with your check to:

PCI
Personal Computer Insurance
P.O. Box 4297
Santa Clara, CA 95054-0297
(408)723 - 8107

Name: _____

Occupation: _____

Street: _____

City: _____

State/Zip: _____

Phone: _____

Date computer was purchased: _____

Computer Serial #: _____

Purchase price of complete system: _____

Dealer: _____

IAC Club you are a member of: _____

Please provide a complete description of the system, software and media to be insured on the reverse side.

Computer Use:

☐ Business
☐ Non-Business
☐ Both

Coverage Desired (All costs included):

☐ $7500 limit at $50 cost annually
☐ $10,000 limit at $65 cost annually
☐ $15,000 limit at $95 cost annually
☐ $2500 business interruption at $10 annually*

*You must purchase this with one of the other packages, not available by itself.

Your coverage is effective when application and check are received by PCI. **Please make all checks payable to PCI.**

Signature _____

The IAC is providing this information to you as a service to its member groups and will receive a fee for handling administrative matters for the insurance broker. The contract of insurance is between the insurance company and the policyholder. The IAC assumes no responsibility or liability with regard the coverage provided or premiums charged should be directed to Personal Computer Insurance at (408) 723 - 8107.

This brochure is a summary of the coverages. For the details please read the policy.

Please provide a complete description of the hardware, software and media to be insured. Be sure the value listed on the reverse side reflects the cost of everything listed here:

Personal Computer Insurance
P.O. Box 4297
Santa Clara, CA 95054-0297
(408) 723-8107

Now that you have your personal computer. . isn't it time to look at your insurance?

The International Apple Core and Personal Computer Insurance believes that your Apple (or other personal computer equipment represents a substantial personal or business investment. We have found that most insurances leave this equipment unprotected against a variety of expensive threats. This special program offers really complete coverage. To prove this to yourself, ask your insurance broker these questions – then compare:

Is my computer covered for:

	PCI	Others
Accidental Breakage?	✓	
Software Replacement?	✓	
Short Circuit or Power Surge on Premise?	✓	
Earthquake?	✓	
Sewer Back-up Seepage?	✓	
Flood?	✓	
Corrosion or Rust Damage Due to Air Conditioning?	✓	
Business Use?	✓	
Full Replacement Cost?	✓	
What is my annual premium cost?	$50	
What is my deductible or co-insurance?	$0	

APPLE II/IIe DIFFERENCES
by David Miller
(From IAC COMPILER #3)

There are several differences between the II (or II+) and the IIe that are of importance to IIe owners. The most obvious is the inclusion of lower case display capability on the IIe. Older versions of the II did not have that built-in capability. For that reason, when Apple created its DOS and BASIC, lower case DOS and BASIC commands were not allowed. To maintain compatability, the IIe functions in the same way. Therefore, users of the IIe should place the computer in the CAPS LOCK position while programming. (An alternative for the experienced programmer is the "Restricted-case mode".)

Older versions of the II came with a 40 character per line display. The IIe can easily be modified to display 80 characters per line. If such a modification is done, be certain to carefully read the accompanying 80-Column Text Card manual, and make note of any program suggestions included.

If you have a IIe with the 80-Column Text Card, you must issue a PR#3 command to turn on the 80-column display. If you have turned on the 80-column display, older programs must be changed wherever a PR#_(n) command has been used. Most of these incidents occur when the output is to go to a printer. The following code steps should replace the Apple II and II+ standard "PR#1--PR#0" code to activate and deactivate the printer for Apple IIe owners using the 80-column display: First, deactivate the 80-column card with PRINT CHR$(21). Second, activate the printer with PRINT CHR$(4);"PR#1". Third, when you are finished printing, deactivate the printer and reactivate the 80-column card with PRINT CHR$(4);"PR#3". Please remember, this change needs to be done only by Apple IIe owners using the 80-column card at the time they want to send output to another peripheral device such as a printer.

Knowledge of and familiarity with the keyboard are essential for error free operation of just about every computer. The IIe is no exception. The IIe keyboard has more keys, a somewhat different placement of certain keys, and a different spelling of one key. Other versions of the II contain a key labeled CTRL. On the IIe, the same key is now spelled out as CONTROL.

In order to "re-boot the system", we were told to type PR#6 or to turn the computer off and then back on. IIe users should, instead, press and hold the CONTROL and OPEN-APPLE keys, then press and release the RESET key. This sequence is known as a "COLD BOOT" and has the same effect as turning an older II off and then back on.

Each character key on the IIe keyboard has an auto repeat capability. This can be very helpful at certain times but at other times may cause some people problems. For instance, if a person presses the RETURN key for too long, more than one INPUT variable may be filled with what is called a "nul string", i.e. no visible characters. In other words, the computer may think you have entered something when all

you did was hold down the RETURN key too long. Such an action can cause errors in certain programs.

The Apple IIe has a slightly different slot arrangement. At the rear of the computer are 7 slots numbered 1 thru 7, instead of the 8 slots numbered 0 thru 7 on older Apple II's. But the IIe has an 8th slot located on the left side toward the middle of the main logic board. In effect, this slot is a duplicate of slot 3 and is intended to contain Apple's 80-Column Text (or Text and memory) Card.

The standard cursor looks somewhat different on the IIe than on the other II's. And depending upon the particular mode you are in, the cursor may be entirely different than any cursor on older Apple II computers. The IIe manual can best explain the purpose for the different shaped cursors.

BASIC programs that POKE and PEEK non-standard entry points (entry points not documented by Apple) may need to be changed. Other than note above, previously created BASIC programs will operate correctly on the IIe in either 40 or 80-column mode with the CAPS LOCK key engaged. However, programs running in the 80-column mode will not take advantage of the additional line space unless specifically modified to do so. Additionally, programs operated in either mode without the CAPS LOCK key engaged (depressed) may experience problems. Since it was not previously necessary for programmers to check for lower case responses, some programs may not recognize that to the user both "Y" and "y" indicate a positive answer.

INTERNATIONAL APPLE CORE ™

APPLE ORCHARD SUBSCRIPTIONS

For IAC Club Members Only

908 GEORGE STREET, SANTA CLARA, CALIFORNIA 95050

☐ 9 issues for only $19.50
($29.25 at newsstands)
$17.00 for members of IAC clubs

☐ Foreign: 9 issues
$36.00 Surface
$29.00 for members of IAC clubs only

☐ Payment enclosed
(US funds only)

Start my subscription with issue # _____

Name _____

Address _____

City _____ State _____ Zip _____

☐ Name of Club _____ Signature of club officer _____ V.P.
Valid only with signature

InterBank # ☐☐☐☐ 4 digit number above your name on MasterCard™ ☐ VISA

Charge Card # ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Credit Card Signature _____ Card Expires

MEMBERSHIP APPLICATION

1. Name _____ Date _____
2. Street _____
3. City _____ State _____ Zip _____
4. Phones (a) Home _____ (b) Work _____
5. Software background _____
6. Hardware background _____
7. What will you use your APPLE for? _____
8. In what area can the club assist you? _____
9. Are you available to assist other members? _____
10. Total amount enclosed _____

1983 Membership Dues are

UNITED STATES..... $ 15.00

CANADA..... $ 21.00

(OFFICE USE ONLY)

PAID BY: cash check RECEIPT #_____ STATUS: New Renewal MEM #_____

-DISKETTE ORDER FORM-

Diskettes are sold to members and non-members and can be picked up at the meeting or mailed anywhere in the continental U.S. Circle desired selection.

Games	I	II	III	IV	V	VI	VII					
Education	I	II	Math		I	Scientific			I	Applesoft Tutor		
Pascal	I	II	III	IV	V	VI						
D.O.M.1980					M	J	J	A	S	O	N	D
D.O.M.1981	J	F	M	A	M	J	J	A	S	O	N	D
D.O.M.1982	J	F	M	A	M	J	J	A	S	O	N	D

All D.O.M.'s up to the current month $5.00 picked up, $6.50 mailed. The current D.O.M. is copied free on your initialized diskette at the meeting.

All catagorized diskettes include a description of the programs and are available for $5.00 if picked up and for $6.50 if they must be mailed.

Non-members prices are $10.00 picked up and $11.50 mailed.

Check here if you want diskettes mailed ( ).

NAME _____

ADDRESS _____

CITY/STATE _____

ZIP _____

MEMBERSHIP CARD # _____

Make check payable to N.E.A.T.
Send to:
N.E.A.T.-Attn: Librarian
P.O.Box 2652
Woburn, MA 01801

Total enclosed $ _____.____

neat
New England Apple Tree
Box 2652, Woburn, MA 01801

BULK RATE
U.S. POSTAGE
PAID
NEWTONVILLE, MA. 02160
PERMIT NO. 57931

EXPIRES 02/84

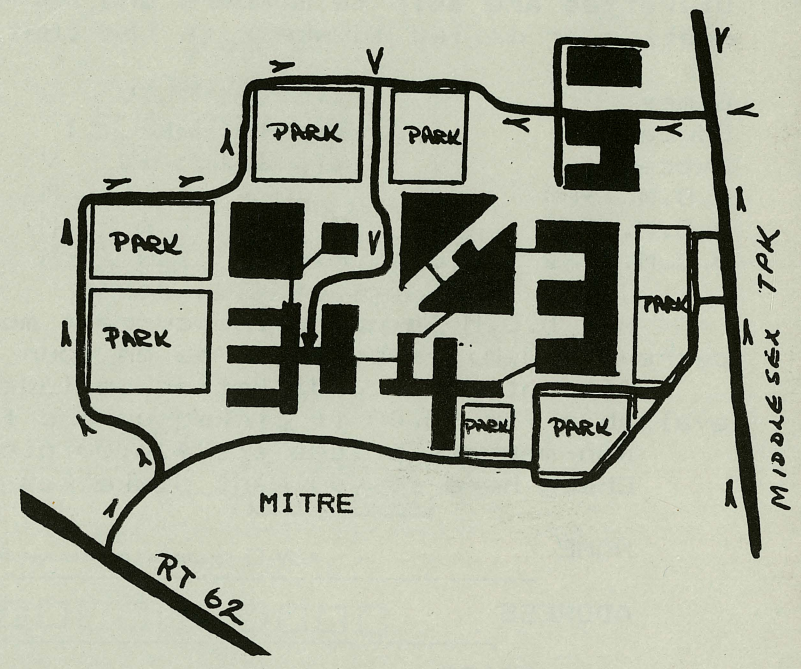
ADVERTISING RATES

Single Issue
- Full Page.....$40.00
- Half Page.....$20.00
- Quarter Page.....$10.00

3 Month series or Longer
- Full Page.....$30.00
- Half Page.....$15.00
- Quarter Page.....$7.50

Inserts letter size accepted at the same rates, subject to weight limitations.

Personal advertisements of members, e.g., swap notices, personal articles for sale, etc. accepted without charge.

Please send ad copy in black and white (half-tones are permited but no bleeds) by the last Wednesday of the month preceeding the month of issue to:

N.E.A.T. Notes
Attention: Editor
P.O.Box 2652
Woburn, MA. 01801